

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	focused hypersonic communication. ti.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 14:29
S2	2065	hypersonic or (hyper sonic)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:20
S3	28553	(hypersonic or (hyper sonic) or (super sonic) or supersonic)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:21
S4	2388	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and phase and wave\$4 and (@rlad<"20040316" or @ad<"20040316")	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:26
S5	8	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and phase and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and ping	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:26
S6	11	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and phase and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and ping\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:31
S7	1413	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and phase and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:28
S8	588	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and phase and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:33

## EAST Search History

S9	433	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:36
S10	373	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4 or divert\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:38
S11	357	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:44
S12	257	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or music or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:45
S13	256	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:45
S14	256	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:47

## EAST Search History

S15	147	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) not vehicle not car not automobile'	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 10:53
S16	13	((hypersonic or (hyper sonic) or (super sonic) or supersonic)).ab. and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:00
S17	24	((hypersonic or (hyper sonic) or (super sonic) or supersonic)).ab. and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:14
S18	2	("5889870").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/10/16 11:00
S19	53	("1616639"   "1951669"   "2461344"   "3012222"   "3398810"   "3612211"   "3613069"   "3641421"   "3710332"   "3723957"   "3742433"   "3836951"   "4207571"   "4245136"   "4378596"   "4418404"   "4593160"   "4823908"   "4991148"   "5317543"   "5357578").PN. OR ("5889870").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/16 11:01

## EAST Search History

S20	346	((hypersonic or (hyper sonic) or (super sonic) or supersonic or sonic)).ab. and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:15
S21	265	((hypersonic or (hyper sonic) or (super sonic) or supersonic or sonic)).ab. and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:34
S22	8	((hypersonic or (hyper sonic) or (super sonic) or supersonic or sonic)).ab. and (phase or delay) and wavelet and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:19
S23	272	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:35
S24	191	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) and (transmission or transmit) not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:36

## EAST Search History

S25	225	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) and (transmission or transmit\$4) not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:37
S26	41	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) and (transmission or transmit\$4).ab. not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:38
S27	41	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible) and (transmission or transmit\$4).ab. not vehicle not car not automobile	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 11:44
S28	97	(hypersonic or (hyper sonic)) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 13:17
S29	9	("5159703"   "5889870").PN. OR ("6052336").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/16 11:53

## EAST Search History

S30	96	(hypersonic or (hyper sonic)) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker) and reflect\$4 and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 12:18
S31	19	(hypersonic or (hyper sonic)) and (phase or delay) and wavelet and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker) and reflect\$4 and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 12:18
S32	96	(hypersonic or (hyper sonic)) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker) and reflect\$4 and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 13:18
S33	97	(hypersonic or (hyper sonic)) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter) and reflect\$4 and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 14:50
S34	33	("2064911"   "3908095"   "4233477").PN. OR ("4823908").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/16 14:15
S35	23	("3239799"   "3723962"   "3881056"   "4037052"   "4586195"   "4703462"   "4739860"   "4796726"   "4823908"   "5007091"   "5233664"   "5452364"   "5526433"   "5600727"   "5901232"   "6011855"   "6186004").PN. OR ("6556687").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/16 14:50

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S36	50	(hypersonic or (hyper sonic)) and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter) and reflect\$4 and (audio or sound or acoustic or audible) and focused	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:00
S37	19	(hypersonic or (hyper sonic)) and (phase or delay) and wavelet and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter) and reflect\$4 and (audio or sound or acoustic or audible) and focused	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 14:58
S38	50	(hypersonic or (hyper sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter) and reflect\$4 and (audio or sound or acoustic or audible) and focused	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:00
S39	5	(hypersonic or (hyper sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter) and reflect\$4 and (audio or sound or acoustic or audible) and focused not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:01
S40	27	(hypersonic or (hyper sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter) and reflect\$4 and (audio or sound or acoustic or audible) not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:03

## EAST Search History

S41	49	(hypersonic or (hyper sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and reflect\$4 and (audio or sound or acoustic or audible) not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:03
S42	61	(hypersonic or (hyper sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:09
S43	143	(hypersonic or (hyper sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:09
S44	61	(hypersonic or (hyper sonic) or (hyper-sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:10
S45	649	(hypersonic or (hyper sonic) or (hyper-sonic) or (super sonic) or supersonic) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:12



## EAST Search History

S46	394	(hypersonic or (hyper sonic) or (hyper-sonic) or (super sonic) or supersonic) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:12
S47	394	(hypersonic or (hyper sonic) or (super-sonic) or (super sonic) or supersonic) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:13
S48	394	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:14
S49	358	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 not vehicle	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:15

## EAST Search History

S50	142	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 not vehicle not optic\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:44
S51	5055	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 not vehicle not optic\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:48
S52	2045	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 not vehicle not optic\$4 and foc\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 16:03
S53	20	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 not vehicle not optic\$4 and foc\$4 and ping\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 15:52

## EAST Search History

S54	14	("4305296"   "4566459"   "4633308"   "4733562"   "4926872"   "4974558"   "5143075"   "5148810"   "5263004"   "5322068"   "5417217"   "5997479"   "6106472"   "6146329").PN. OR ("6293912").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/16 15:54
S55	2045	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 and foc\$4 not vehicle not optic\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 16:05
S56	1077	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 and foc\$4 not vehicle not optic\$4 not "600".clas.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 16:07
S57	561	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 and foc\$4 not vehicle not optic\$4 not "600".clas. not ink not tissue	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/17 17:40

## EAST Search History

S58	435	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 and foc\$4 and (room or space or dimension\$3 or coordinate) not vehicle not optic\$4 not "600".clas. not ink not tissue	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 16:33
S59	206	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 and foc\$4 and (band or sideband) not vehicle not optic\$4 not "600".clas. not ink not tissue	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 18:21
S60	20	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and reflect\$4 and wave\$4 and foc\$4 and sideband not vehicle not optic\$4 not "600".clas. not ink not tissue	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/16 18:05
S61	2	("6850623").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/10/17 11:40
S62	0	("2005/0195985").URPN.	USPAT	ADJ	ON	2007/10/17 11:45

## EAST Search History

S63	2	("6850623").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/10/17 11:45
S64	2	("20050244016").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/10/17 11:47
S65	4	("3239799").URPN.	USPAT	ADJ	ON	2007/10/17 16:46
S66	205	((parametric loudspeaker) or (parametric speaker) and (@rlad<"20040316" or @ad<"20040316"))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/17 17:40
S67	197	((parametric loudspeaker) or (parametric speaker)) and (@rlad<"20040316" or @ad<"20040316"))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/17 17:42
S68	161	((parametric loudspeaker) or (parametric speaker)) and (@rlad<"20040316" or @ad<"20040316")) and (supersonic or ultrasonic or hypersonic or (super sonic) or (hyper sonic) or (ultra sonic))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 11:03
S69	2	("6584205").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 10:32
S70	86	((parametric loudspeaker) or (parametric speaker)) and (@rlad<"20040316" or @ad<"20040316")) and (supersonic or ultrasonic or hypersonic or (super sonic) or (hyper sonic) or (ultra sonic)) and (phase or delay)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 11:19

## EAST Search History

S71	76	((parametric loudspeaker) or (parametric speaker)) and (@rlad<"20040316" or @ad<"20040316") and (supersonic or ultrasonic or hypersonic or (super sonic) or (hyper sonic) or (ultra sonic)) and (phase or delay) and wave\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 11:19
S72	2	"6556687".pn.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 14:30
S73	1	1999-547481.NRAN.	DERWENT	ADJ	ON	2007/10/18 14:30
S74	23	("3239799"   "3723962"   "3881056"   "4037052"   "4586195"   "4703462"   "4739860"   "4796726"   "4823908"   "5007091"   "5233664"   "5452364"   "5526433"   "5600727"   "5901232"   "6011855"   "6186004").PN. OR ("6556687").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/18 14:33
S75	0	"09253729".ap.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/18 14:33
S76	0	"09253729".app.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/18 14:33
S77	0	("9253729").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/10/18 14:34
S78	3087	manabe.in.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 14:34
S79	11	manabe koji.in.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 14:34

## EAST Search History

S80	37	("3810082"   "4247900"   "4252026"   "4254662"   "4325257"   "4448075"   "4505156"   "4553437"   "4604697"   "4611494").PN. OR ("4733562").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/18 14:40
S81	8	("4823908"   "5159703"   "5412734"   "5859915"   "6052336"   "6229899").PN. OR ("6678381").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/18 15:08
S82	0	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and (frequency selct\$4) and echo\$2 and foc\$ not vehicle not optic\$4 not "600".clas. not ink not tissue	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 18:23
S83	30	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and (frequency select\$4) and echo\$2 and foc\$ not vehicle not optic\$4 not "600".clas. not ink not tissue	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/18 18:49
S84	63	("3911730"   "4041442"   "4140022"   "4528854"   "4550606"   "4550607"   "4662223"   "4730495"   "4733562"   "4917097"   "4945915"   "4949310"   "5027820"   "5188114"   "5229933"   "5249578"   "5267221"   "5307815"   "5315999"   "5322067"   "5345426"   "5349262"   "5462057"   "5469851"   "5522391"   "5538004"   "5573001"   "5590658"   "5678552").PN. OR ("5997479").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2007/10/18 18:42

## EAST Search History

S85	115	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and (frequency select\$4) and echo\$2 and foc\$ not vehicle not optic\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:30
S86	45	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and (frequency select\$4) and echo\$2 and foc\$ not vehicle not optic\$4 not doppler	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 08:32
S87	498	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and (frequency select\$4) not vehicle not optic\$4 not doppler	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 07:56
S88	53	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and ((frequency select\$4) same noise) not vehicle not optic\$4 not doppler	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 07:56



## EAST Search History

S89	1405	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and (frequency select\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 08:53
S90	464	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (transducer or microphone or speaker or loudspeaker) and (audio or sound or audible) and (frequency select\$4) not optic\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 08:54
S91	40	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (transducer or microphone or speaker or loudspeaker) and (audio or sound or audible) and ((frequency select\$4) same (noise or environment)) not optic\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:06
S92	54	high frequency microphone	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:07
S93	5006	(frequency near3 microphone) and frequency	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:07
S94	1730	(frequency near3 microphone) and frequency and (@rlad<"20040316" or @ad<"20040316") and (delay or phase)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:08

## EAST Search History

S95	7129	(frequency near3 microphone) and frequency and (@rlad<"20040316" or @ad<"20040316") and (delay or phase) and ultraso\$4 or (ultra-so\$4)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:09
S96	240	(frequency near3 microphone) and frequency and (@rlad<"20040316" or @ad<"20040316") and (delay or phase) and (ultraso\$4 or (ultra-so\$4))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:09
S97	1627	(hypersonic or (hyper sonic) or (super sonic) or supersonic or ultrasonic or (ultra sonic)) and (phase or delay) and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and (sensor or transducer or microphone or speaker or loudspeaker or emitter or transmit\$4) and (audio or sound or acoustic or audible) and echo\$2 and foc\$ not vehicle not optic\$4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/22 09:30
S98	185	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and "381".clas.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/26 14:44
S99	2	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and "381".clas. and "600".clas.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/26 14:45
S10 0	75073	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and "381".clas. or "600".clas.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/26 14:45
S10 1	2424	(hypersonic or (hyper sonic) or (super sonic) or supersonic) and "381".clas. or "600".clas. and (phase or delay) and wave\$4 and (@rlad<"20040316" or @ad<"20040316") and frequenc\$3 and foc\$5 and (sensor or transducer or microphone) and (reflect\$4 or refract\$4) and (audio or sound or acoustic or audible)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/26 14:45

## EAST Search History

S10 2	211	381/387.ccls.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/26 14:46
S10 3	742	600/447.ccls.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	ADJ	ON	2007/10/26 14:47